

IGS-6488XSFP

8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP⁺ L2+ Industrial

Managed Ethernet Switch w/ Enhanced G.8032 Ring ; PXE ; 24V/HV input

models

- Auto-sensing SFP/ SFP+ Uplink Cage
- Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI /RSTP ; support MRP ring
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, MLD snooping, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3,TACACS+, QinQ
- Support PXE to verify switch firmware with the latest or certain version on server
- USB port to backup, restore the configuration file and upgrade
- Protocol based VLAN ; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage and current
- Dual Input voltage 12~56VDC (24V model); Single input power 90~305VAC/120~430VDC (HV model)
- Optional L3Lite/L3* to be upgradable
- Wide range operation temperature (-E model):-40~75C/-40~167F; Fan-less design



OVERVIEW

Lantech IGS-6488XSFP is a high performance L2+ (All Gigabit) Ethernet switch with 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP⁺ auto-sensing cage which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring. It also supports train ring, enhanced mode with easy configuration, comprehensive QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ which are important features required in large network. The Cisco Discovery Protocol (CDP) and LLDP are supported for Ciscoworks to detect the switch info and show on L2 map topology.

Miss-wiring avoidance, node failure protection, Loop protection

The IGS-6488XSFP also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IGS-6488XSFP is able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the Ethernet switches in a ring to survive after power breakout is back. The status can be shown in NMS when each Ethernet switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

DHCP option 82 & Port based, Mac based DHCP, Option66, IPv6 DHCP server

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application. Basic IPv6 DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-6488XSFP much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP; MRP ring Lantech IGS-6488XSFP features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology



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protection covering multicast packets. It also supports various ring topologies that covers enhanced ring and basic ring by easy setup than others. It supports MSTP that allows RSTP over VLAN for redundant links with 8 MSTI.

MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

QinQ, QoS and GVRP supported

It supports the QinQ, QoS and GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, MLD Snooping, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port, MLD Snooping and static multicast forwarding binding by ports for video surveillance application.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech IGS-6488XSFP can be exported and edited with word processor for the other switches configuration with ease.

The built-in watchdog design can automatically reboot the switch when CPU is found dead.

The USB port can upload/download the configuration from/to USB dongle.

2DI/2DO for relay contact and event alerting by email** & traps

In case of event, the IGS-6488XSFP is able to send an email** to pre-defined addresses as well as SNMP Traps out immediately. It provides 2DI and 2DO. When disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the alarm while sending alert information to IP network with email and traps.

Support PXE to verify switch firmware with the latest or certain version

The switch can check its firmware version during booting time

FEATURES & BENEFITS

- 8 10/100/1000T + 8 100M/1G SFP+ 4 1G/2.5G/10G SFP+ auto-sensing cage L2+ industrial managed Ethernet switch (Total 20 Ports Switch)
- Dual input from 12V~56VDC (24V model); HV single input from 90~305VAC/120~430VDC (HV model)
- Back-plane (Switching Fabric): 112Gbps
- 16K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms for

via PXE protocol. If switch finds any newer version, it will upload automatically.

Enhanced Storm control*

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces and the detection is more precise and reaction is more efficient

Optional L3Lite/L3* to be upgradable

Lantech OS3 is optional upgradable to L3 Lite for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.

Enhanced Environmental monitoring for Ethernet switch inside information

The enhanced environmental monitoring can detect switch overall temperature, actual input voltage and current. It also can send the SNMP traps and email** when abnormal.

24V/HV input voltage selection: dual 12V-60VDC (24V

model) or single 90~305VAC/120~430VDC (HV model) The IGS-6488XSFP is able to work from 12~56VDC (24V model). Or with single high power supply at 90~305VAC / 120~430VDC (HV model).

Industrial hardened design with high EFT and ESD protection

Lantech IGS-6488XSFP features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. Featured with relay contact alarm function, the IGS-6488XSFP is able to connect with alarm system in case of power failure or port disconnection. The IGS-6488XSFP also provides $\pm 2000V$ EFT and \pm 4000 VDC (Contact) / \pm 8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

It is the best solution for Automation, transportation, surveillance. Wireless backhaul. Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

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- Support various ring/chain topologies, including enhanced ring & basic ring
- Enhanced G.8032 ring configuration with ease
- Cover multicast and data packets protection
- Provides EFT protection \pm 2000 VDC for power line
- Supports ±4000 VDC (Contact) and ±8000 VDC (Air) Ethernet ESD protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 8 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ, QoS





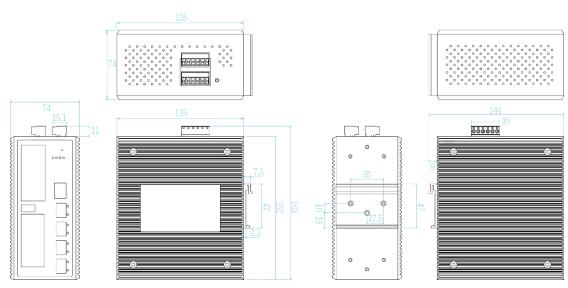
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66; Basic IPv6 DHCP server
- Mac based DHCP server to assign IP address that includes dumb Ethernet switches in DHCP network
 Bandwidth Control
 - - Ingress packet filter and egress rate limit
 Broadcast/multicast packet filter control
 - Relay alarm output system events
- Relay alarm output system ev
 Miss-wiring avoidance
 - · LED indicator
 - TFTP/HTTP firmware upgrade
- System Event Log, SMTP Email** alert and SNMP
 - Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS ACL L2/L3
 - Port Security: MAC address entries/Filter/static MAC-Port binding
 - Remote Admin: IP address security management to prevent unauthorized intruder.
 - · TACACS+
 - Login Security: IEEE802.1X/RADIUS
 - HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP

surveillance application

- IGMP router port to assign query in ring and for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multi media
- Dual image firmware support
- Factory reset button to restore setting to factory default
- Watchdog design to auto reboot switch when CPU is found dead
- Enhanced Environmental monitoring for system real input voltage, current, ambient temperature
- Diagnostic including Ping / ARP table / DDM information
- Optional L3Lite/L3* to be upgradable
- Support PXE to verify switch firmware with the latest or certain version
- MLD Snooping for IPv6 Multicast stream
- Supports DIDO (Digital Input/Digital Output)
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration file by USB dongle
- IP30 metal housing with DIN rail and Wall-mount** design

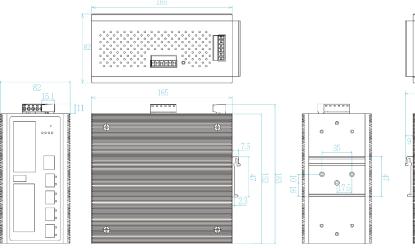
DIMENSIONS (unit=mm)

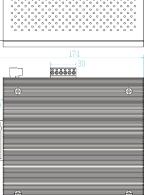
24V model





HV model





SPECIFICATION

	Specification		Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km,
Standards	IEEE802.3 10Base-T Ethernet		1310 /1550nm (9/125 µm); 0 to 80 km,
	IEEE802.3u 100Base-TX		1490/1550 nm (9/125 μm)
	IEEE802.3ab 1000Base-T		10Gbps
	IEEE802.3z Gigabit fiber		Multi mode: 0 to 300 m, 850 nm (OM3 50/125
	IEEE802.3x Flow Control and Back Pressure		μm);
	IEEE802.3ad Port trunk with LACP		Single mode: 0 to 10 km/ 20 km, 1310 nm (9/12
	IEEE802.1d Spanning Tree		μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/12
	IEEE802.1w Rapid Spanning Tree		
	IEEE802.1s Multiple Spanning Tree		μm)
	IEEE802.3ad Link Aggregation Control Protocol		WDM 10Gbps
	(LACP)		Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km,
	IEEE802.1AB Link Layer Discovery Protocol		1270/1330 nm (9/125 µm); 0 to 80km, 1490/155
	(LLDP)		nm (9/125 µm)
	IEEE802.1X User Authentication (Radius)	LED	Per unit: Power 1 (Green), Power 2 (Green),
	IEEE802.1p Class of Service		FAULT (Red); RM(Green)
	IEEE802.1Q VLAN Tag		Ethernet port: Link/Activity (Green), Speed
Switch	Back-plane (Switching Fabric): 112Gbps		
Architecture			(Green);
Mac Address	16K MAC address table		Mini-GBIC: Link/Activity (Green)
Jumbo frame	10KB	DI/DO	2 Digital Input (DI) :
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto		Level 0: -30~2V / Level 1: 10~30V
	MDI/MDI-X function		Max. input current:8mA
	Mini-GBIC: 8x 100M/1G SFP + 4 x 1G/2.5G/10G		2 Digital Output(DO): Open collector to 40 VDC
	SFP ⁺ auto-sensing cage with DDMI		200mA
	RS-232 connector: RJ-45 type	Operating	5% ~ 95% (Non-condensing)
	USB x 1	Humidity	
	Power & Relay connector: 1 x 6-pole terminal	Operating	-20°C~60°C / -4°F~140°F (Standard model)
	block	Temperature	-40°C~75°C / -40°F~167°F(-E model)
	DIDO : 1 x 6-pole terminal block	Storage	-40°C~85°C / -40°F~185°F
Network Cable	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6	Temperature	
	cable; EIA/TIA-568 100-ohm (100m)	Power Supply	Dual DC input, 12~56VDC (24V model)
	1000Base-T: 4-pair UTP/STP Cat5E/6 cable;		Single HV input, 90~305VAC/120~430VDC (HV
	10GBaseT:4-pair STP Cat6/6A/7 cable		model)
Optical Cable	1Gbps:	Power	29W
	Multi mode: 0 to 550 m, 850 nm (50/125 µm); 0	Consumption	
	to 2 km, 1310 nm (50/125 µm)	Case Dimension	Metal case. IP-30,
	Single mode: 0 to 10 km/ 30 km/ 40 km, 1310		74 (W) x 135 (D) x 152 (H) mm (24V model)
	nm (9/125 μ m); 0 to 50 km/ 60 km/ 80km/ 120		74 (W) x 165 (D) x 152 (H) mm (HV model)
		Weight	900 g
	km, 1550 nm (9/125 μm)	Installation	DIN Rail and Wall Mount** Design
	2.5Gbps	EMI & EMS	FCC Class A,
	Multi mode: 0 to 300 m, 850 nm (50/125 µm);		CE EN55032 Class A, CE EN55024,
	Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm		CE EN61000-4-2, CE EN61000-4-3,
	(9/125 µm); 0 to 40 km/ 80 km/ 100km, 1550 nm		CE EN61000-4-4, CE EN61000-4-5,
	(9/125 µm)		CE EN61000-4-6, CE EN61000-4-8,
	WDM 1Gbps:		CE EN61000-6-2, CE EN61000-6-4
	Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km,	Stability Testing	IEC60068-2-32 (Free fall),
		otability rooting	IEC60068-2-27 (Shock),
	1310 nm (9/125 μm); 0 to 80 km, 1490 nm		IEC60068-2-6 (Vibration)
	(9/125 µm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80	MTBF	591,245 (Hrs) (standards: IEC 62380)
	km, 1550 nm (9/125 μm)	Warranty	5 years
	WDM 2.5Gbps	wanany	o youro

Datasheet Version 1.3

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Industrial 10G Uplink Gigabit Managed Ethernet Switches



Software Specification			
	SNMP v1 v2c, v3/ Web/Telnet/CLI		
Management SNMP MIB	RFC 1213 MIBII		
SINIMP MID	RFC 1213 MIBII RFC 1158 MIB		
	RFC 1157 SNMP MIB		
	RFC 1493 Bridge MIB* RFC 1573 IF MIB		
	RFC 2674 Q-Bridge MIB*		
	RFC 2819 RMON MIB		
	Private MIB		
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection		
	in less than 20ms for self-heal recovery (single		
	ring enhanced mode)		
	Support basic single ring & enhanced ring		
	Enhanced G.8032 ring configuration with ease		
	Cover multicast & data packets protection		
User friendly UI	 Auto topology drawing Topology demo 		
	 Topology demo Complete CLI for professional setting 		
Port Trunk with	 LACP Port Trunk: 10 Trunk groups 		
LACP	Liter Fort Hank To Hank groups		
LLDP	Supports LLDP to allow switch to advise its		
	identification and capability on the LAN		
CDP	Cisco Discovery Protocol for topology mapping		
Environmental	System status for real input voltage, current and		
Monitoring	ambient temperature to be shown in GUI and		
	sent alerting if any abnormal status		
VLAN	Port Based VLAN		
	IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID		
	(Up to 4K, VLAN ID can be assigned from 1 to		
	4096.)		
	GVRP, QinQ, QoS, Protocol based VLAN; IPv4		
Spanning Tree	Subnet based VLAN Supports IEEE802.1d Spanning Tree and		
Spanning nee	IEEE802.1w Rapid Spanning Tree, IEEE802.1s		
	Multiple Spanning Tree 8 MSTI		
Quality of	The quality of service determined by IPv4 Type		
Service	of service, IPv4 Differentiated Services Code		
	Points - DSCP		
Class of Service	Support IEEE802.1p class of service, per port		
D	provides 8 priority queues		
Remote Admin	Supports 10 IP addresses that have permission		
	to access the switch management and to prevent		
	unauthorized intruder.		
Login Security	Supports IEEE802.1X Authentication/RADIUS		
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"		
Network			
Security	Support 10 IP addresses that have permission to		
	access the switch management and to prevent		
	unauthorized intruder.		
	802.1X access control for port based and MAC		
	based authentication/static MAC-Port binding		
	Ingress ACL L2/L3		
	SSL/ SSH v2 for Management		
	HTTPS for secure access to the web interface		
	TACACS+ for Authentication		
ICMP			
IGMP	Support IGMP snooping v1,v2,v3; 256 multicast		
o	groups; IGMP router port ; IGMP query; GMRP		
Static multicast	Static multicast forwarding forward reversed		
forwarding	IGMP flow with multicast packets binding with		
	ports for IP surveillance application		
Bandwidth	Support ingress packet filter and egress packet		
	limit.		

Control	The egress rate control supports all of packet
	type.
	Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet,
	Broadcast/Multicast packet, Broadcast packet
	only and all types of packet.
	The packet filter rate can be set an accurate
	value through the pull-down menu for the ingress
	packet filter and the egress packet limit.
Flow Control	Supports Flow Control for Full-duplex and Back
	Pressure for Half-duplex
System Log	Supports System log record and remote system
	log server
SMTP	Supports SMTP Server and 8 e-mail accounts for
Delau Alexa	receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm.
	Alam Relay current carry ability: 1A @ DC24V
Protection	 Miss-wiring avoidance
	 Node failure protection
	Loop protection
SNMP Trap	Up to 5 trap stations; trap types including:
	Device cold start
	Authorization failure
	 Port link up/link down
	 DI/DO open/close
	 Typology change(ITU ring)
	Power failure
	Environmental abnormal
DHCP	Provide DHCP Client/ DHCP Server/DHCP
	Option 82/Port based or VLAN based DHCP
	distribution (DHCP relay agent); DHCP Option
Mac based	66; basic IPv6 DHCP server Assign IP address by Mac that can include dumb
DHCP Server	switch in DHCP network
DNS	Provide DNS client feature and support Primary
DNS	and Secondary DNS server.
PXE	PXE to verify switch firmware with the latest or
	certain version
MLD Snooping	Support IPv6 Multicast stream
Optional	Lantech OS3 is optional upgradable to L3
L3Lite/L3*	Lite/L3* for future expansion. The optional L3Lite
	includes editable routing table, VRRP, Router-on-
	a-stick, Inter- VLAN routing.
Diagnostic	Support Ping, ARP table and DDM information
SNTP	Supports SNTP to synchronize system clock in Internet
Firmware	Supports TFTP firmware update, TFTP backup
Update	and restore; HTTP firmware upgrade
Configuration	Supports text configuration file for system quick
upload and	installation; Support factory reset button to
download	restore all settings back to factory default; USB
Dual Imana	for auto restore/backup configuration file
Dual Image Firmware	Support dual image firmware function
*Future release	

*Future release **Optional ***Optional DDM

SFP required



ORDERING INFORMATION

- IGS-6488XSFP-24V.....P/N: 8350-872 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Enhanced Environmental Monitoring; dual input 12V~56V
- IGS-6488XSFP-24V-E.....P/N: 8350-873 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Enhanced Environmental Monitoring; dual input 12V~56V
- IGS-6488XSFP-HV.....P/N: 8350-874 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Enhanced Environmental Monitoring; Single high power 90~305VAC/120~430VDC
- IGS-6488XSFP-HV-E.....P/N: 8350-875 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Enhanced Environmental Monitoring; Single high power 90~305VAC/120~430VDC

OPTIONAL ACCESSORIES

Software package

OS3 – L3L..... P/N: 9000-114 OS3 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details) OS3 – L3*..... P/N: 9000-116

refer to derating curve on NDR-120 Series datasheet)

OS3 software platform with Layer 3 functions (please check Lantech software data sheet for details)

DIN Rail Power

NDR-240-48

240W (48V 5A) Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C) NDR-120-48 120W (48V 2.5A) Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C-70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please

Mini GBIC (SFP)

8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver
8330-163X	MINI GBIC 1000SX2 (LC/2km) Transceiver
8330-165X	MINI GBIC 1000LX (LC/10km) Transceiver
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver
8330-170	MINI GBIC 1000EZX (120km) Transceiver
8330-168	MINI GBIC 1000T (100m) Transceiver
8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)
8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)
8330-262D	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km)
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All SFP ended with D are with Diagnostic function

Transceiver 8330-263D 8330-265D **8330-193D** B330-194D sceiver 8330-209D (WDM 1270) 8330-210D (WDM 1330) 8330-200D (WDM 1270) 8330-201D (WDM 1330) 8330-202D (WDM 1270) 8330-203D

MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver 10G Base SFP* SR, Multi-mode (LC/300m) Transceiver

10G Base SFP⁺ LR, Single-mode (LC/10km)

- 10G Base SFP+ , Single-mode(10km) Transceiver
- 10G Base SFP+ , Single-mode(10km) Transceiver
- 10G Base SFP*, Single-mode(20km) Transceiver
- 10G Base SFP+, Single-mode(20km) Transceiver
- 10G Base SFP⁺, Single-mode(40km) Transceiver
- 10G Base SFP⁺, Single-mode(40km) Transceiver (WDM 1330)

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